

# RS2A THRU RS2M

# 2.0 AMPS. Fast Recovery Surface Mount Rectifiers



Voltage Range 50 to1000 Volts Current 2.0 Amperes

### **Features**

- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- ♦ Fast switching for high efficiency
- → High temperature soldering:
  260°C/10 seconds at terminals

#### **Mechanical Data**

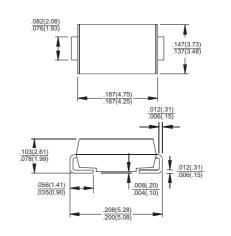
♦ Cases: Molded plastic♦ Terminals: Solder plated

Polarity: Indicated by cathode band

♦ Packing: 12mm tape per E1A STD RS-481

♦ Weight: 0.093 gram

### SMB/DO-214AA



Dimensions in inches and (millimeters)

## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	RS 2A	RS 2B	RS 2D	RS 2G	RS 2J	RS 2K	RS 2M	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1 @T <sub>L</sub> =100 <sup>o</sup> C	I <sub>(AV)</sub>	2.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50							Α
Maximum Instantaneous Forward Voltage @ 2.0A	V <sub>F</sub>	1.3							V
Maximum DC Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A = 125^{\circ}C$	I <sub>R</sub>	5 200							uA uA
Maximum Reverse Recovery Time ( Note 1 )	Trr	150 250 500					nS		
Typical Junction Capacitance ( Note 2 )	Cj	50							pF
Typical Thermal Resistance (Note 3)	$R heta_{JA} \ R heta_{JL}$	55.0 18.0							Ç\M Ç\M
Operating Temperature Range	$T_J$	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

- Notes: 1. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A
  - 2. Measured at 1 MHz and Applied V<sub>R</sub>=4.0 Volts
  - 3. Thermal Resistance from Junction to Ambient and Junction to Lead Mounted on P.C.B . with 0.4" $\times 0.4$ " (  $10 \times 10 \text{ mm}$  ) Copper Pad Areas.



